

**SYSTEM AND METHOD FOR AUTOMATIC PROVISIONING AND
MAINTENANCE OF OPERATIONS SUPPORT SYSTEMS**

ABSTRACT OF THE INVENTION

The present invention provides a complete virtual multi-vendor EMS based network that behaves identical to the network elements of the EMS clients. A virtual network simulator is built that has the ability to faithfully simulate the behavior of any vendor's EMS to represent the data objects required by the TMF 814 specification. This allows automatic provisioning and maintenance of the Operation Support Systems to fully test new functionality against complete EMS based network without depending upon the availability of any physical equipment, thereby providing much quicker, low cost, extremely life-like testing environment.